

## CLAIMS:

1. Use of an agriculturally acceptable composition for acceleration of flowering in a plant comprising an effective amount of at least one Lipo-chitooligosaccharides with one or more agriculturally acceptable carrier.
2. Use of an agriculturally effective amount of Lipo-chitooligosaccharides for acceleration of flowering in a plant.
3. Use of an agriculturally acceptable composition comprising an effective amount of one or more Lipo-chitooligosaccharides, with one or more agriculturally acceptable carrier, for acceleration of flowering and fruiting in a plant or for increasing flower numbers and associated yield.
4. Use of an effective amount of one or more Lipo-chitooligosaccharides for acceleration of flowering and fruiting in a plant, or increasing flower numbers and associated yields.
5. A method for acceleration of flowering and/or fruiting in a plant, comprising the application to a plant of a composition comprising an effective amount of one or more Lipo-chitooligosaccharides with one or more agriculturally acceptable carrier; said amount effective to accelerate flowering or fruiting in a plant, or increasing flower numbers or associated yield as compared to conditions without treatment with Lipo-chitooligosaccharides.